

Response Under 37 C.F.R. § 1.111
U.S. Serial No. 09/898,185
Group Art Unit: 2674
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REMARKS

Claims 1-30 are pending in the present application.

Applicant notes with appreciation that the Examiner has found claims 3, 5, 7-9, 13-17 and 22-26 to be allowable if rewritten in independent form. Applicant submits that the remaining claims also are allowable, as presented below.

Applicant notes with appreciation that the Examiner indicates that the drawings filed on July 3, 2001 are acceptable.

I. PRIOR ART REJECTION

Claims 1, 2, 4, 6, 10-12, 18-21 and 27-30 are rejected under 35 U.S.C. § 103(a) over U.S. Patent No. 5,798,740 (Bitzakidis) in view of U.S. Patent No. 6,466,191 (Choi). This Rejection is traversed.

Regarding independent claims 1, 12 and 21, the Examiner asserts that Bitzakidis teaches all of the claim elements except providing a voltage level altering means for shifting voltage levels of the source signals supplied by the source driver equally for all of the pixel electrodes. The Examiner further asserts that Fig 6 and column 1, lines 46-52 of Choi teaches a gray scale generator and the compensator for a distortion of common electrode voltage, and that it would have been obvious to utilize the compensator of Choi in the display disclosed by Bitzakidis because this would provide quality display.

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Applicant submits that neither Bitzakidis nor Choi teaches or suggests a voltage level altering means that shifts voltage levels of source signals supplied by a source driver equally for all of the pixel electrodes, as recited by independent claims 1, 12 and 21. The Examiner admits that Bitzakidis does not teach this feature and fails to mention where in Choi this feature is disclosed.

Applicant submits that the common electrode voltage distortion compensator 500 of Choi is substantially different than the claimed voltage level altering means for shifting voltage levels. As mentioned above, the Examiner relies on Fig 6 and column 1, lines 46-52 of Choi. This section of Choi reads:

Such a distortion of the common electrode (Vcom) changes the magnitude of the voltage actually applied to both terminals of the liquid crystal capacitance Cle, the difference between the gray voltage and the common electrode voltage Vcom, thereby inducing a crosstalk phenomenon that deteriorates the display quality of contiguous pixels.

The common electrode voltage distortion compensator (500) is provided between the LCD panel (200) and the gray voltage generator (300), and compensates for the distortion of the common electrode voltage generated by the common electrode voltage generator (600).

An object of Choi is to prevent the crosstalk phenomenon from occurring in the LCD, i.e., to prevent the displayed colors from being changed due to a change in the transmittance of the liquid crystal. The change in transmittance is caused by a change in the voltage difference between the terminals of the liquid crystal capacitance. The change in the voltage difference is caused by

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the distortion of the common electrode voltage. Such an object can be achieved by using the common electrode voltage distortion compensator (500) for compensating the distortion of the common electrode voltage.

The functions of the common electrode voltage (500) are substantially different than those of the claimed "voltage level altering means." The present invention reduces power consumption in the adjustment circuit for adjusting the potential difference between each of the pixel electrodes and the common electrode.

Therefore, the combination of Bitzakidis and Choi does not form the invention defined by independent claims 1, 12 and 21, on which claims 2, 4, 6, 10, 11, 18-20 and 27-30 depend. Thus, Applicant submits that the rejection of claims 1, 2, 4, 6, 10-12, 18-21 and 27-30 under 35 U.S.C. § 103(a) is improper. Accordingly, Applicant respectfully requests that the rejection be withdrawn.

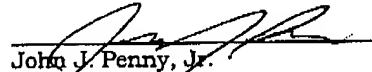
Based on the foregoing, Applicant submits that the present application is in condition for allowance and allowance is respectfully solicited. If the Examiner believes that the prosecution of this case could be expedited through a telephone interview, he is kindly invited to contact the undersigned at the phone number listed below.

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Applicant believes that no additional fees are due for the subject application. However, if for any reason a fee is required, a fee paid is inadequate or credit is owed for any excess fee paid, you are hereby authorized and requested to charge Deposit Account No. 04-1105.

Respectfully submitted,

Date: February 1, 2006
Customer No.: 21874


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